



JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR P.O.:
APPROVAL:	REPRESENTATIVE:

M8E0226-00 *

7700LL 2-WAY UNIBODY STAINLESS STEEL, FNPT THREADED SEAL WELDED BALL VALVE WITH VALBIA METAL ELECTRIC ACTUATOR AND BRACKET

SIZES 1/4" TO 2"

*001 12V AC/DC	*002 24V AC/DC	*003 100-240V AC
01 BATTERY BACKUP	*02* POSITIONER	*04* BATTERY BACKUP W POSITIONER

SPECIFICATIONS

The M8E0226 series features the Bonomi 7700LL full port, seal-welded design, CF8M stainless steel body, with 25% carbon reinforced TFE seats, graphite stem packing, and a drilled and tapped rear mounting pad. A thermal relief hole in the stem slot is standard. In addition, the 7700LL has a grounded ball and stem, is NACE MR 0175 compliant, and is fire-safe certified to API 607.

The Valbia VBM series metal actuator housing is made from die cast aluminum, and standardly features dual motors, two extra limit switches, a heater and thermostat, a torque limiter, dual ISO patterns, female star drive, a high-profile dome indicator, 1/2" conduit connections, and a 75% duty cycle motor. The actuator is NEMA 4 rated, and options include positioning boards, battery back-ups, or a combination of the two.

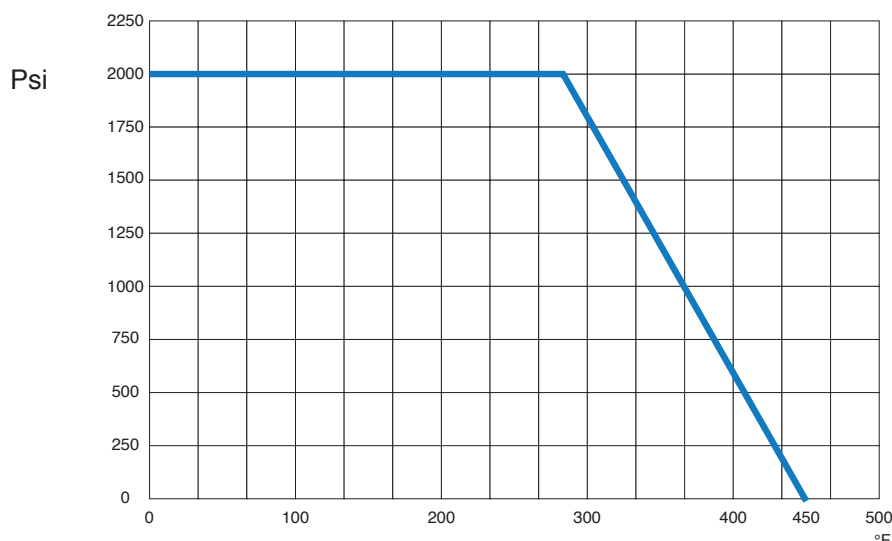
ACTUATOR FEATURES

- Dual Voltages
- 24V AC/DC and 100-240V AC Models Available
- ISO 5211 dual patterns
- 75% Duty Cycle
- Anti-condensation heater, (when red wire is connected to power)
- High-Strength, Die Cast Aluminum Powder Coated Housing
- Temperature Range -4°F to 131°F
- NEMA 4 Housing
- Two Auxiliary Switches Standard
- Torque limiter standard
- 1/2" conduit connection

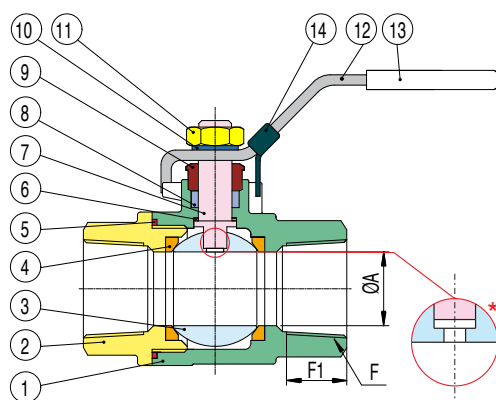
VALVE FEATURES

- Unibody CF8M body
- Full port, sizes 1/4" to 2"
- Fire-safe certified to API 607
- Grounded ball and stem
- Self adjusting stem packing
- Blow out proof stem design
- 100% air tested under water at 80 psi
- Pressure rating 1/4" to 2" 2000 psi 200 psi steam
- Temperature range -4°F to 450°F
- Mounting pad for actuator

PRESSURE - TEMPERATURE CHART FOR SERIES 7700LL



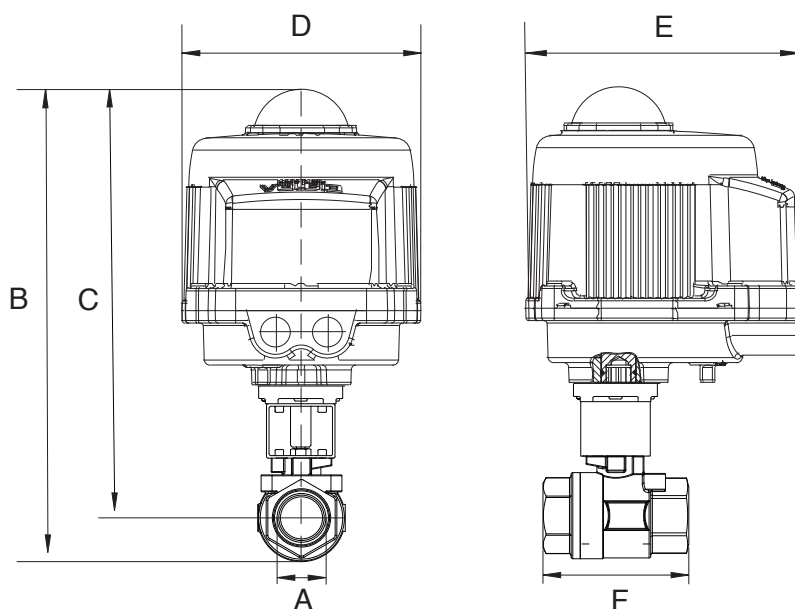
BILL OF MATERIALS FOR 700LL



* THERMAL RELIEF HOLE IN THE STEM SLOT.

N POS	PART NAME	MATERIAL	N POS
1	BODY	CF8M	1
2	END CAP	CF8M	1
3	BALL	SS 316	1
4	SEAT	R.P.T.F.E.	2
5	JOIN GASKET	P.T.F.E.	2
6	THRUST WASHER	P.T.F.E.	1
7	STEM	SS 316	1
8	V RING PACKING	P.T.F.E.	1
9	GLAND BUSH	SS 304	1
10	STEM WASHER	SS 304	1
11	STEM NUT	SS 304	1
12	HANDLE	SS 304	1
13	HANDLE SLEEVE	VINYL	1
14	LOCKING DEVICE	SS 304	1

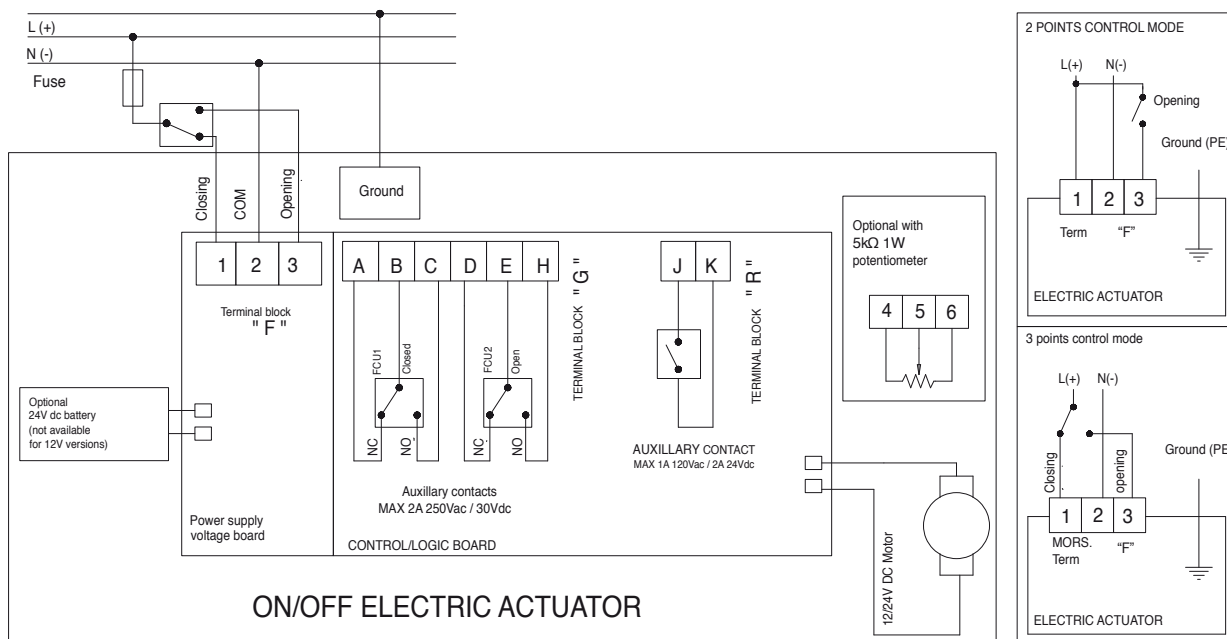
DIMENSIONS



Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	0.45	0.49	.059	0.78	0.98	1.25	1.49	1.96
B	13.64	13.64	14.52	14.85	14.34	16.58	17.27	18.89
C	11.29	11.29	11.69	11.84	11.61	12.90	13.21	14.40
D	6.34	6.34	6.34	6.34	6.34	6.34	6.34	6.93
E	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.76
F	1.96	1.96	2.36	2.51	2.79	3.07	3.38	3.74
Act.	VB030M	VB030M	VB030M	VB030M	VB030M	VB030M	VB030M	VB060M

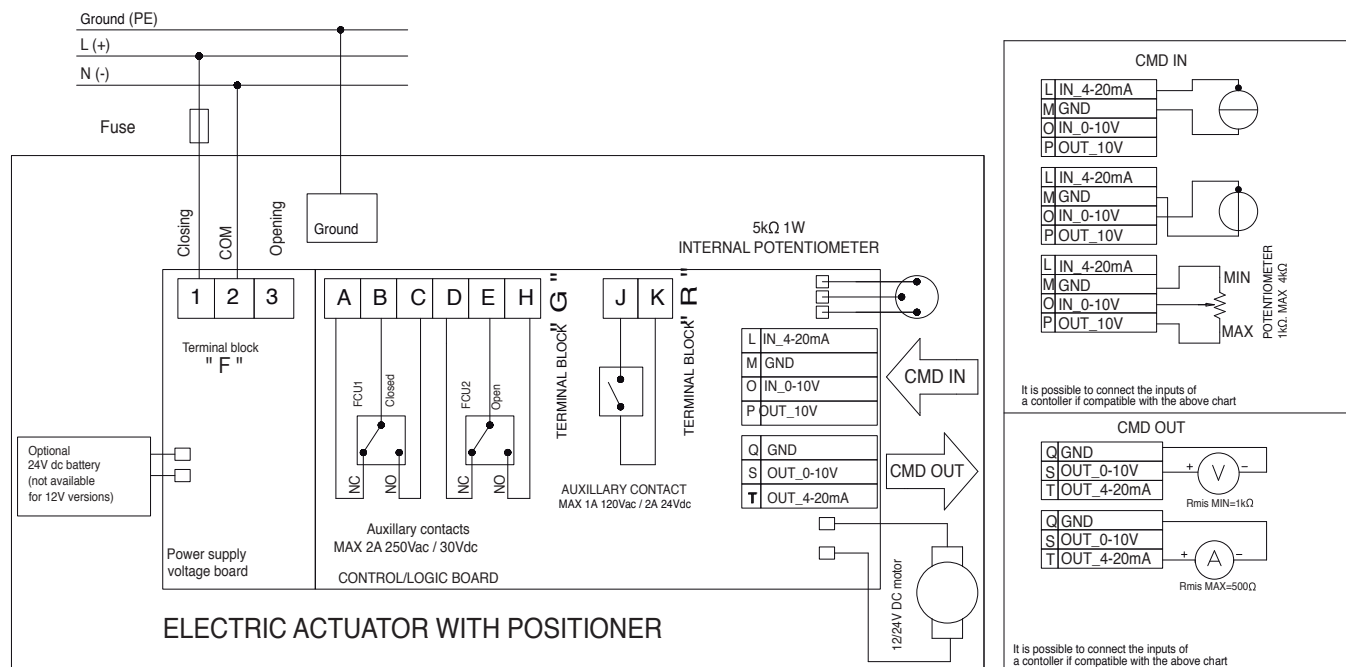
ON/OFF WIRING DIAGRAM - VB030M -VB060M

12V AC/DC, 24V AC/DC & 100-240VAC



POSITIONER WIRING DIAGRAM - VB030M -VB060M

12V AC/DC, 24V AC/DC & 100-240VAC



The power supply COM signal (pin "2" terminal block "F") cannot share the same electrical command ground signal (pin "GND" terminal block "CDM IN") or feedback ground signal (pin "GND" terminal block "CDM OUT").